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| CATRAL | ENT | | | U.S. PAT | ENT DOCUMENTS | | | | |
| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | | NAME | CLASS | SUBCLASS | FILING IF APPRO | |
| 110 | | US 5,483,346 | 01/09/96 | BUTZI | ER, DANE C. | 356/369 | | 04/11/94 | } |
| 100 | | US 5,633,724 | 05/27/97 | KING, | DAVID A., et. al. | 356/445 | | 08/29/95 | ; |
| 188 | | US 4,508,832 | 04/02/85 | CARTI | ER, TIMOTHY, et. al. | 436/517 | | 06/18/82 | ; |
| mp | | US 5,437,840 | 08/01/95 | KING, | DAVID A., et. al. | 422/82.08 | 3 | 04/15/94 | ļ |
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| | | | | OTHER | DOCUMENTS (Including | Author, Title, | Date, Pertinent Po | ages, Etc.) | |

"OPTICAL CHARACTERIZATION OF VERY THIN HYDROGENATED AMORPHOUS SILICON FILMS USING SPECTROSCOPIC ELLIPSOMETRY"; by SAITOH; HORI; SUZUKI; & IIDA; JAPANESE JOURNAL OF APPLIED PHYSICS; 1991.

"HANDBOOK OF OPTICS", by THE OPTICAL SOCIETY OF AMERICA; Vol. 1; pp. 4.23, 4.24; 1995

EXAMINER

DATE CONSIDERED

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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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| G MUI | * | Filing Date 01/12/2001 | Group Art Unit | | |
| TANDA OF | OTHER DOCUMENTS (Including Author, | | | | |
| INITIAL INTIAL | "IMAGING ELLIPSOMETRY REVISITED: D LAYERS ON SILICON SUBSTRATES", by GA | EVELOPMENTS FOR VISUALIZANG JIN, et al., Rev. Sci. Instrum., | ATION OF THIN TRANSPARENT pp. 2930-2936, 1996. | | |
| IP | "PRINCIPLES OF OPTICS - ELECTROMAGE DIFFRACTION OF LIGHT", by MAX BORN | & EMIL WOLF, Sixth Edition, pp. | 47-51. 16 280 ECE | | |
| | "BIOSENSORS: AN INTRODUCTION", by BE | | THE O | | |
| | "MONITORING SPECIFIC INTERACTION OF POROUS SILICON USING ELLIPSOMETRY Bioelectronics Vol. 13, pp. 439-449, 1997. | OF LOW MOLECULAR WEIGHT ", byD. VAN NOORT; S. WELIN-I | BIOMOLECULES ON OXIDIZED KLINTSTROM, et al. Biosensors & | | |
| | "IMAGING ELLIPSOMETRY FOR BIOSENS '95.EUROSENSORS IX, pp. 509-774, 1995. | OR APPLICATIONS", by GANG | JIN, et al., TRANSDUCERS | | |
| | "WAVEGUIDE ELLIPSOMETRY BIOSENSO JINYU WANG, pp. 44-50, 1992. | RS: CONCEPT AND PRELIMINA | RY ANALYSIS", SPIE Vol. 1648, by | | |
| | "FLOW-INJECTION ELLIPSOMETRY - AN I ADSORPTION AND INTERACTION AT SOLI 333-339, 1985. | IN SITU METHOD FOR THE STU ID SURFACES", by ULF JONSSO | DY OF BIOMOLECULAR N, et al., Colloids and Surfaces, pp. | | |
| | "BIOSENSORS BASED ON SURFACE CONC CONCENTRATION", by ULF JONSSON, et al. | ENTRATION MEASURING DEVI ., Progress in Colloid and Polymer S | CES - THE CONCEPT OF SURFACE Sci. 70, pp. 96-100, 1985. | | |
| | "[34] SURFACE IMMOBILIZATION TECHNI et al., Methods in Enzymology Vol. 137, pp. 381- | QUES IN COMBINATION WITH 1351, 1988. | ELLIPSOMETRY", by ULF JONSSON | | |
| | "CHARACTERIZATION OF BIOMEMBRANI RESONANCE AND INTERFEROMETRY WIT Biosensors & Bioelectronics 9, pp. 139-146, 1994 | TH REGARD TO BIOSENSOR AP | RY, SURFACE PLASMON PLICATION", by Ch. STRIEBEL, et al., | | |
| | "ELLIPSOMETRIC IMMUNOSENSORS FOR ALBUMIN", by T.A. RUZGAS, et al., Biosensor | THE DETERMINATION OF Y-IN & Bioelectronics 7, pp. 305-308, 1 | NTERFERON AND HUMAN SERUM 992. | | |
| IAP | "DETERMINATION BY ELLIPSOMETRY OF NYGREN, et al., Journal of Immunological Met | THE AFFINITY OF MONOCLO hods, 92, pp. 219-221, 1986. | NAL ANTIBODIES", by HAKEN | | |
| EXAMINER | Alha | DATE CONSIDERED | 419/03 | | |
| | tial if citation considered, whether or not citation is in conforcelude copy of this form with next communication to applican | | ne through citation if not in conformance and | | |

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| INIT | BAER | OTHER DOCUMENTS (Including Author, T | itle, Date, Pertinent Pages, Etc.) | |
| It | P | "OPTO-ELECTRONIC IMMUNOSENSORS: A SURFACES", by JOHN F. PLACE, et al., Biosen | REVIEW OF OPTICAL IMMUNO sors 1, pp. 321-353, 1985. | DASSAY AT CONTINUOUS |
| | | "BIOSENSORS: FUNDAMENTAL, TECHNOLO et al., GBF Monographs Vol. 17, pp. 174-178, 199 | OGIES AND APPLICATIONS, by A | A. BRECHT, et al., edited by F. Sch |
| | | "KINETICS OF ANTIBODY-BINDING TO SUR TRANSPORT ON THE ENZYME-LINKED IMM of Colloid and Interface Science, Vol. 107, pp. 560 | /UNOSORBENT ASSAY (ELISA) | : INFLUENCE OF MASS ', by NYGREN & STENBERG, Jou |
| | | "MONITORING SPECIFIC INTERACTION OF POROUS SILICON USING ELLIPSOMETRY", Bioelectronics Vol. 13, pp. 439-449, 1997. | LOW MOLECULAR WEIGHT B byD. VAN NOORT; S. WELIN-KI | IOMOLECULES ON OXIDIZED LINTSTROM, et al., Biosensors & |
| | | "EFFECTS OF HYDROPHILIZATION AND IM IMMUNOGLOBULINS", by MARTIN MALMST | MOBILIZATION ON THE INTER FEN, et al., Journal of Colloid and I | FACIAL BEHAVIOR OF nterface Science 177, pp. 70-78, 1994 |
| | | "TEMPORAL STUDIES ON THE DEPOSITION IMMOBILIZED ON METHYLATED SILICON" Research, Vol. 35, pp. 81-91, 1997. | OF COMPLEMENT ON HUMAN , by PENTTI TENGVALL, et al., Jo | COLOSTRUM IgA AND SERUM I ournal of Biomedical Materials |
| | | "ASSEMBLY OF ANTIBODIES IN LIPID MEM et al., Applied Biochemistry and Biotechnology, pr | BRANES FOR BIOSENSOR DEVE o. 163-181, 1994. | ELOPMENT", by HUAIYOU WANG |
| | | "WETTING AND DEWETTING OF Si/SiO2-WA SOLUTIONS UNDER CONTROLLED HUMIDIT | FERS BY FREE AND LIPID-MON FY", by G. ELENDER, et al., Journs | OLAYER COVERED AQUEOUS al de Physique II, pp. 455-479, 1994. |
| | | "COUPLING OF BIOMOLECULES TO SILICOI TECHNIQUES", by CARL FREDRIK MANDENI | N SURFACES FOR USE IN ELLIP IUS, et al., Methods in Enzymology, | SOMETRY AND OTHER RELATE Vol. 137, pp. 388-394, 1988. |
| | | "PATTERNING OF IMMOBILIZED ANTIBODY EXPOSURE", by A.W. FLOUNDERS, et al., Biose | LAYERS VIA PHOTOLITHOGR ensors and Bioelectronics Vol. 12, pp | APHY AND OXYGEN PLASMA 6. 447-456, 1997. |
| | | "A COMPARATIVE STUDY OF PROTEIN IMM by A. AHLUWALIA, et al., Biosensors and Bioelec | OBILIZATION TECHNIQUES FO tronics 7, pp. 207-214, 1991. | R OPTICAL IMMUNOSENSORS" |
| AP | | "UNIVERSAL IMAGING CORPORATION - ME'RUDOLF : OLDENBOURG, pp. 1-2 | TAPOLSCOPE"; "METAMORPH | IMAGING SYSTEM", by DR. |
| EXAMINE | R | Ashu | DATE CONSIDERED 31191 | 03 |
| | | citation considered, whether or not citation is in conformat | nce with MPEP Section 609; Draw line t | hrough citation if not in conformance and |

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| EXAMINER LA | OTHER DOCUMENTS (Including Author, Ti | itle, Date, Pertinent Pages, Etc.) | P.C. | | |
| MP | "A NEW VIEW ON POLARIZATION MICROS June 1996. | COPY", by RUDOLF OLD | ENBOURG, Nature yol. 381, 50, 811-812, 27 | | |
| | "STRUCTURAL ANALYSIS WITH QUANTITA American Laborary, pp. 34-42, July 1999. | TIVE BIREFRINGENCE | IMAGING", by CLIFFORD C. HOYT, et al., | | |
| | "DIRECT VISUALIZATION OF MONOLAYER MICROSCOPY", by DIRK HONIG, et al., J. Phy | S AT THE AIR-WATER II s. Chem., pp. 4590 & 4592, | NTERFACE BY BREWSTER ANGLE 1991. | | |
| | "MICROSCOPE AT THE BREWSTER ANGLE IN MONOLAYERS", by S. HENON, et al., Rev. S | : DIRECT OBSERVATION Sci. Instrum. 62, pp. 936-93 | OF FIRST-ORDER PHASE TRANSITIONS 0, 1990. | | |
| | "A BIOSENSOR CONCEPT BASED ON IMAGI INTERACTIONS", by GANG JIN, et al., Analyti | NG ELLIPSOMETRY FOlcal Biochemistry 232, pp. 69 | R VISUALIZATION OF BIOMOLECULAR 9-72, 1995. | | |
| | "COMPLEMENT ACTIVATION BY 3-MERCA PENTTI TENGVALL, et al., Biomaterials 17, pp | PTO-1,2-PROPANEDIOL : . 1001-1007, 1995. | MMOBILIZED ON GOLD SURFACES", by | | |
| MP | "SPECTROSCOPIC ELLIPSOMETRY AND BIG ARWIN, Thin Solid Films 313-314, pp. 764-774, 1 | OLOGY: RECENT DEVEL 998. | OPMENTS AND CHALLENGES", by H. | | |
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| EXAMINER | Mha | DATE CONSIDERED | 3/19/03 | | |
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